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On one hand, it represents a contribution to the active area of design of "smart" communications controllers which use increasingly sophisticated processor/memory configurations to improve the performance of interprocessor communication. On the other hand, it represents an application of the minimalist principles of the RISC (Reduced Instruction-Set Computer) architecture [1] to operating syst ...

24 SODA: a simplified operating system for distributed applications



Jonathan Kepecs, Marvin Solomon

October 1985 **ACM SIGOPS Operating Systems Review**, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: [full citation](#), [references](#), [citations](#)

25 Security issues surrounding programming languages for mobile code: JAVA vs. Safe-



Tcl

Stefanos Gritzalis, George Aggelis

April 1998 **ACM SIGOPS Operating Systems Review**, Volume 32 Issue 2

Publisher: ACM Press

Full text available: pdf(1.42 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

JAVA is claimed to be a system programming language having a number of advantages over traditional programming languages. These advantages stem from the fact that it is a platform - independent language, thus promising truly network oriented computing as long as a nearly universal system for distributing applications. On the other hand, although being an interpreted, much simpler, scripting language, Safe-Tcl was proposed as an executable contents type of MIME and thus as the standard language f ...

26 MedSpeak: report creation with continuous speech recognition



Jennifer Lai, John Vergo

March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '97**

Publisher: ACM Press

Full text available: pdf(1.16 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: continuous speech recognition, dictation, navigation, radiology, speech interface design

27 Fast detection of communication patterns in distributed executions



Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

28 Technique for automatically correcting words in text





Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4**Publisher:** ACM Press

Full text available: pdf(6.23 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

29 A thread-aware debugger with an open interface



Daniel Schulz, Frank Mueller

 August 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2000 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '00**, Volume 25 Issue 5
Publisher: ACM Press

Full text available: pdf(347.13 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While threads have become an accepted and standardized model for expressing concurrency and exploiting parallelism for the shared-memory model, debugging threads is still poorly supported. This paper identifies challenges in debugging threads and offers solutions to them. The contributions of this paper are threefold. First, an open interface for debugging as an extension to thread implementations is proposed. Second, extensions for thread-aware debugging are identified and implemented wit ...

Keywords: active debugging, concurrency, debugging, open interface, threads

30 System-level power optimization: techniques and tools



Luca Benini, Giovanni de Micheli

 April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 2
Publisher: ACM Press

Full text available: pdf(385.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This tutorial surveys design methods for energy-efficient system-level design. We consider electronic systems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survey ...

31 Remus: a security-enhanced operating system



Massimo Bernaschi, Emanuele Gabrielli, Luigi V. Mancini

 February 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 1
Publisher: ACM Press

Full text available:  pdf(295.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a detailed analysis of the UNIX system calls and classify them according to their level of threat with respect to system penetration. Based on these results, an effective mechanism is proposed to control the invocation of critical, from the security viewpoint, system calls. The integration into existing UNIX operating systems is carried out by instrumenting the code of the system calls in such a way that the execution is granted only in the case where the invoking process and the valu ...

Keywords: Access control, Linux, privileged tasks, system calls interception, system penetration


32 [Abstraction-based intrusion detection in distributed environments](#)



Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang

November 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available:  pdf(590.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Abstraction is an important issue in intrusion detection, since it not only hides the difference between heterogeneous systems, but also allows generic intrusion-detection models. However, abstraction is an error-prone process and is not well supported in current intrusion-detection systems (IDSs). This article presents a hierarchical model to support attack specification and event abstraction in distributed intrusion detection. The model involves three concepts: *system view*, *signature* ...

Keywords: Cooperative information systems, heterogeneous systems, intrusion detection, misuse detection

33 [The nesC language: A holistic approach to networked embedded systems](#)



David Gay, Philip Levis, Robert von Behren, Matt Welsh, Eric Brewer, David Culler

May 2003 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation PLDI '03**, Volume 38 Issue 5

Publisher: ACM Press

Full text available:  pdf(177.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present *nesC*, a programming language for networked embedded systems that represent a new design space for application developers. An example of a networked embedded system is a sensor network, which consists of (potentially) thousands of tiny, low-power "motest," each of which execute concurrent, reactive programs that must operate with severe memory and power constraints. *nesC*'s contribution is to support the special needs of this domain by exposing a programming model that incorporates ...

Keywords: C, TinyOS, components, concurrency, data races, first-order, modules, *nesC*, programming languages

34 [A Survey of Data Structures for Computer Graphics Systems](#)



Robin Williams

March 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 1

Publisher: ACM Press

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  [pdf\(1.67 MB\)](#)[terms](#)

This is a survey of a data structures and their use in computer graphics systems. First, the reasons for using data structures are given. Then the sequential, random, and list organizations are discussed, and it is shown how they may be used to build complex data structures. Representative samples of languages specifically designed for creating and manipulating data structures are described next. Finally some typical computer graphics systems and their data structures are described. It is a ...

35 [Improving bus test via IDDT and boundary scan](#)

Shih-Yu Yang, Christos A. Papachristou, Massood Tabib-Azar

June 2001 **Proceedings of the 38th conference on Design automation DAC '01****Publisher:** ACM PressFull text available:  [pdf\(262.37 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper presents a systematic test methodology targeting bus line interconnect defects using IDDT testing and Boundary Scan. Traditional test is unable to detect all possible defects, especially timing-related faults. Open and short defects on interconnects between embedded modules can be detected by IDDT testing. Boundary Scan can provide accessibility to internal buses. A statistical analysis is presented discussing the uncertain factors due to process variations and power fluctuation. ...

Keywords: IDDT, boundary scan, current test, interconnect**36** [Extensible security architectures for Java](#)

Dan S. Wallach, Dirk Balfanz, Drew Dean, Edward W. Felten

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5**Publisher:** ACM PressFull text available:  [pdf\(2.15 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**37** [Fast forward: Icons, symbols, and signs: visible languages to facilitate communication](#)

Aaron Marcus

May 2003 **interactions**, Volume 10 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(584.46 KB\)](#) [html\(24.12 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**38** [SCHEMASIM: a simulation environment for real-time systems](#)

Christopher J. Coomber

March 1994 **ACM SIGSIM Simulation Digest**, Volume 23 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(947.12 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of real-time systems is inherently difficult because of the strict functional and temporal constraints such systems must satisfy when in operation. Often computer simulation plays a vital role in modelling real-time systems and is useful for determining whether sub-systems interact properly, timing constraints are upheld, and predictable

behavior prevails in abnormal situations. In this paper, a new environment, called SCHEMASIM, for simulating real-time systems is overviewed. SCHEMASI ...

Keywords: animation, real-time systems, transformation schema

39 Computer system reliability and nuclear war



Alan Borning

February 1987 **Communications of the ACM**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(2.50 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Given the devastating consequences of nuclear war, it is appropriate to look at current and planned uses of computers in nuclear weapons command and control systems, and to examine whether these systems can fulfill their intended roles.

40 Paranoid Penguin: The 101 Uses of OpenSSH: Part II of II



Mick Bauer

February 2001 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(29.42 KB) Additional Information: [full citation](#), [index terms](#)

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